#### **PATENT COOPERATION TREATY**



#### From the INTERNATIONAL SEARCHING AUTHORITY

# To: CARPMAELS & RANSFORD Attn. Mercer, Christopher P. 43-45 Bloomsbury Square London WC1A 2RA UNITED KINGDOM

### PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Don [

Date of mailing (day/month/year)

09/02/2005

Applicant's or agent's file reference
P039224WO
International application No.

International filing date (day/month/year)

FOR FURTHER ACTION

See paragraphs 1 and 4 below

PCT/GB2004/004574

Applicant

29/10/2004

LIFESCAN SCOTLAND LIMITED

1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

- 2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
- With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
  - the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

    no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

#### 4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

Europear NL-2280 Tel. (+31-

European Patent Office, P.B. 5818 Patentlaan 2 NI –2280 HV Riiswiik

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Luis-Miquel Paredes Sanchez

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
  - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

#### **PATENT COOPERATION TREATY**

## **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220							
P039224WO	ACTION		as, where applicable, item 5 below.							
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)							
PCT/GB2004/004574	29/10/2004		31/10/2003							
Applicant										
LIFESCAN SCOTLAND LIMITED	LIFESCAN SCOTLAND LIMITED									
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.										
This International Search Report consists		eets.								
X It is also accompanied by	a copy of each prior art document	cited in this	report.							
language in which it was filed, unl	a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.									
The international this Authority (Ru		o or a transi	lation of the international application furnished to							
b. With regard to any <b>nucle</b>	otide and/or amino acid sequenc	e disclosed	in the international application, see Box No. I.							
2. Certain claims were fou	and unsearchable (See Box II).									
3. Unity of invention is lac	king (see Box III).									
4. With regard to the <b>title</b> ,										
X the text is approved as su	ubmitted by the applicant.									
	shed by this Authority to read as fol	ows:								
	W									
5. With regard to the abstract,										
	ubmitted by the applicant.	M. 2	discount apparent to Day No. 10. The control of							
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.										
6. With regard to the <b>drawings</b> ,										
a. the figure of the <b>drawings</b> to be published with the abstract is Figure No										
	as suggested by the applicant.									
<u> </u>	nis Authority, because the applicant		••							
	nis Authority, because this figure be be published with the abstract.	uer cnaract	tenzes the invention.							
indic of the figures is to										

Form PCT/ISA/210 (first sheet) (January 2004)

#### INTERNATIONAL SEARCH REPORT

1

International application No.

PCT/GB2004/004574

Box No. IV Text-of the abstract (Continuation of item 5 of the first sheet)

This invention describes a method of reducing the effect of interfering compounds in a bodily fluid when measuring an analyte using an electrochemical sensor (62). In particular, the present method is applicable to electrochemical sensors where (62) the sensor includes a substrate (50), first and second working electrodes (10,12), and a reference electrode (14) and either the first and second or only the second working electrode include regions which are bare of reagent (22). In this invention, an algorithm is described with mathematically corrects for the interference effect using the test strip embodiments of the present invention.

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/004574

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01N27/327 C12Q1/00								
•								
	International Patent Classification (IPC) or to both national classif	ication and IPC						
	SEARCHED cumentation searched (classification system followed by classification system followed by classific	ation symbols)						
IPC 7	G01N C12Q							
Documentat	ion searched other than minimum documentation to the extent tha	t such documents are included in the fields se	earched					
Electronic da	ata base consulted during the international search (name of data t	base and, where practical, search terms used	)					
EPO-In	ternal							
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.					
Α	US 6 287 451 B1 (WINARTA HANDAN) 11 September 2001 (2001-09-11) column 7, line 44 - column 8, l	1-4						
Α	US 6 258 229 B1 (WINARTA HANDAN: 10 July 2001 (2001-07-10) column 6, line 48 - column 7, lifigures 2,3	1-4						
Á	US 6 540 891 B1 (STEWART ALAN AI AL) 1 April 2003 (2003-04-01) column 5, line 63 - column 6, l figure 3	1-4						
Furt	her documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.					
"A" docume consider the consider the consideration of the consideration	ategories of cited documents:  ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) lent referring to an oral disclosure, use, exhibition or means	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled</li> </ul>						
	ent published prior to the international filing date but han the priority date claimed	in the art.  *&* document member of the same patent family						
	actual completion of the international search	Date of mailing of the international sea 09/02/2005	arch report					
<del></del>	February 2005							
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer						
	Fax: (+31–70) 340–3016	Wilhelm, J						

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#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/GB2004/004574

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6287451	B1	11-09-2001	AT	273511 T	15-08-2004
00 01107.02			AU	5321200 A	18-12-2000
			CA	2375092 A1	07-12-2000
			DE	1212609 T1	28-11-2002
			DE	60012946 D1	16-09-2004
			DE	60012946 T2	05-01-2005
			ĒΡ	1212609 A2	12-06-2002
			ËS	2177474 T1	16-12-2002
			JP	2003501627 T	14-01-2003
			WO	0073785 A2	07-12-2000
US 6258229	 В1	10-07-2001	 AU	5176000 A	18-12-2000
•••••			CA	2375089 A1	07-12-2000
			EP	1181539 A1	27-02-2002
			JP	2003501626 T	14-01-2003
			WO	0073778 A1	07-12-2000
US 6540891	 B1	01-04-2003	GB	2337122 A	10-11-1999
<b></b>			ΑU	758617 B2	27-03-2003
			AU	3835899 A	29-11-1999
			BR	9910284 A	09-01-2001
			CA	2331824 A1	18-11-1999
			EΡ	1075538 A1	14-02-2001
			WO	9958709 A1	18-11-1999
			JP	2002514744 T	21-05-2002

#### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No 31.10.2003 29.10.2004 PCT/GB2004/004574 International Patent Classification (IPC) or both national classification and IPC G01N27/327, C12Q1/00 Applicant LIFESCAN SCOTLAND LIMITED This opinion contains indications relating to the following items: 1. Box No. Ⅰ Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. III Lack of unity of invention □ Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 3. Name and mailing address of the ISA: Authorized Officer



European Patent Office - P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl

Fax: +31 70 340 - 3016

Wilhelm, J

Telephone No. +31 70 340-2633



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004574

	Box N	o. I Basis of the opinion					
1.	With regard to the <b>language</b> , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
	la	his opinion has been established on the basis of a translation from the original language into the following inguage—, which is the language of a translation furnished for the purposes of international search inder Rules 12.3 and 23.1(b)).					
2.	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type	of material:					
		a sequence listing					
		table(s) related to the sequence listing					
b. format of material:							
		in written format					
		in computer readable form					
c. time of filing/furnishing:							
		contained in the international application as filed.					
	Ö	filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	h C	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as oppropriate, were furnished.					
4.	Additional comments:						

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/004574

	Box	No. II	Priority						
1.	$\boxtimes$	The fol	llowing document ha	as not beer	n furnished	d:			
		$\boxtimes$	copy of the earlier	application	whose pr	riority has b	een claimed (Rule 43bis.1 and 66	5.7(a)).	
			translation of the e	arlier appli	cation who	ose priority	has been claimed (Rule 43 <i>bis</i> .1 a	and 66.7(b)).	
		Conse	quently it has not be heless been establis	en possibl shed on the	e to consi e assumpt	der the vali ion that the	dity of the priority claim. This opin relevant date is the claimed prior	ion has ity date.	
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.							
3.		It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.							
4.		ditional o	observations, if nece		er Rule 4	3hic 1(a)(i)	with regard to novelty, inventiv	re sten or	
							ting such statement	- отор от	
1.	Sta	tement							
	Nov	velty (N)	)	Yes: No:	Claims Claims	1-4			
	Inv	entive s	etep (IS)	Yes: No:	Claims Claims	1-4			
	Ind	ustrial a	applicability (IA)	Yes: No:	Claims Claims	1-4			
2.	Cita	ations a	and explanations						
	see	e separ	ate sheet						

#### Re Item V.

- The following document is referred to in this communication:
   US 6287451 B1 (WINARTA HANDANI ET AL) 11 September 2001 (2001-09-11)
- 2.1. Document D1 (see example 2) discloses a method of reducing interferences in an electrochemical sensor (10), comprising the steps of:
  - measuring a first current (I<sub>w1</sub>) at a first working electrode (W1), said first working electrode (W1) being covered by a reagent layer
  - measuring a second current (I<sub>w2</sub>) at a second working electrode (W2), said second working electrode (W2) being covered by another reagent layer
  - calculating a corrected current value (I) representative of a glucose concentration
- 2.2. The subject-matter of independent claims 1 and 3 differs from this teaching in that one or both of the working electrodes are only partially covered by a reagent layer. This feature eliminates the need for two different reagent layers. Since this solution is neither disclosed nor suggested by the available prior art, the subject-matter of independent claims 1 and 3 is considered novel and inventive (Article 33 PCT).